

A B S T R A C T

A sensor for measuring a physical parameter of a fluid, in particular for measuring total air temperature, the sensor comprising: a fluid intake (1) fitted
5 to a streamlined body (2); a duct provided in said streamlined body (2) to enable fluid flow, said duct communicating with said fluid intake; and a sensing element disposed inside said duct. The sensor is characterized in that it includes elements that give it improved measurement performance. In particular, the proposed air intake presents an inlet section which extends so
10 as to define a sliding surface suitable for eliminating ice. The invention also provides an improved system for sucking in the boundary layer by using slots, and it also provides a ceramic sensing element that provides better thermal decoupling relative to the de-iced body.